



# The TRTN line

## Temperature transmitters

Room transmitters for measurement of temperature.

- Protection class IP30
- Good long term stability
- Output signal 0...10 V DC or 4...20 mA

- Snap-on cover
- Resistant to contamination
- Accuracy  $\pm 0.3^{\circ}\text{C}$

The TRTN temperature transmitters are intended for room mounting in HVAC systems.

The temperature sensor gives output signal 0...10 V DC or 4...20 mA via the built-in electronics.

### Supply voltage

For output signal 0...10 V, the transmitter should be supplied with 15...40 V DC or 24 V AC  $\pm 20\%$ . For output signal 4...20 mA, the transmitter should be supplied with 20...28 V DC  $> U_V > 10 + 0.02 \times R_L$  ( $R_L$  is the input load resistance of the connected controller.  $R_L$  must be  $< 500 \text{ Ohm}$ ).

The transmitter has automatic adaptation to the connected voltage.

## Models

Model	Output signal
TRTN	0...10 V
TRTN-D	0...10 V
TRTN-420	4...20 mA

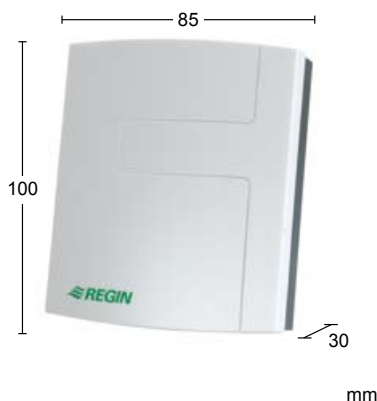
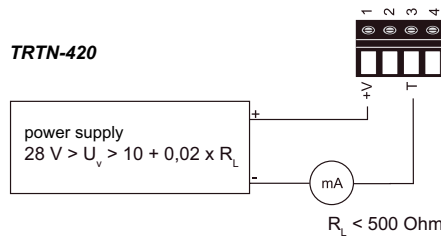
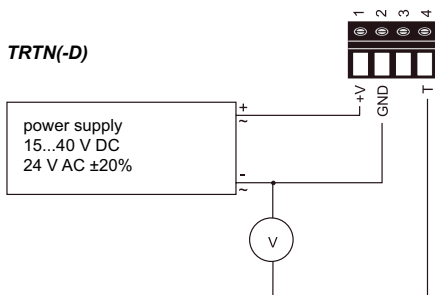
## Technical data

Supply voltage ( $U_v$ )	for 0...10 V for 4...20 mA	15...40 V DC / 24 V AC $\pm 20\%$ 20...28 V DC $> U_v > 10 + 0.02 \times R_L$ ( $R_L$ is the input load resistance of the connected controller. $R_L$ must be $< 500 \text{ Ohm}$ .)
Current consumption	for DC supply for AC supply	typ. 4 mA typ. 15 mA <sub>eff</sub>
Electrical connection	screw terminals max. 1.5 mm <sup>2</sup> (AWG 16)	
Temperature ranges	working temperature storage temperature	0...50°C -25...60°C
Protection class	IP30	
<b>CE</b>	This product conforms with the requirements of European EMC standards CENELEC EN 61000-6-1 and EN 61000-6-3.	

## Temperature

Analogue output 0...50°C  
Accuracy at 20°C and  $U_v=24 \text{ V DC}$  0...10 V -1 mA  $< I_L < 1 \text{ mA}$ , 4...20 mA (two wires),  $R_L < (U_v - 10) / 0.02 < 500 \text{ Ohm}$   $\pm 0.3^\circ\text{C}$

## Wiring and Dimensions



## Product documentation

Document	Type
Instruction TRTN	Instruction for the transmitter line

The product documentation is available on [www.regin.se](http://www.regin.se).

**Head Office Sweden**  
Phone: +46 31 720 02 00  
Web: [www.regin.se](http://www.regin.se)  
Mail: [info@regin.se](mailto:info@regin.se)

**Sales Offices**  
France: +33 14 171 46 46  
Hong Kong: +852 24 07 02 81  
Singapore: +65 67 47 82 33  
Germany: +49 30 77 99 40

**REGIN**

THE CHALLENGER IN BUILDING AUTOMATION